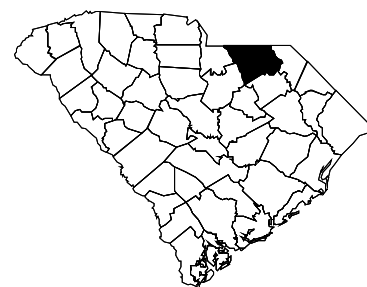


IMPACT OF CHRONIC CONDITIONS CHESTERFIELD County, 2005



In the year 2005, the leading causes of death among South Carolinians were heart disease, cancer, stroke, accidents, chronic lower respiratory disease, Alzheimer's disease, diabetes, nephritis, nephritic syndrome, nephrosis, pneumonia and influenza and septicemia. This report focuses on the chronic conditions of the population of Chesterfield county, and is compared to the overall chronic conditions of the population of South Carolina as a whole.

The distribution of Chesterfield county's population is similar to the state's. The majority (37%) of the population in Chesterfield county are between the ages of 18-44. There are more females (52%) than males (48%). Chesterfield county's minority population (35%) is higher than the state (31%). When adults in DHEC's Region 4 which includes Chesterfield County, were asked about their general health status, 79.1% reported having excellent, very good, or good health in 2005 (SC was 82%).

	CHESTERFIELD COUNTY	STATE
Population size	43,435	4,255,083
Age distribution (%)		
<18	25	24
18-44	37	38
45-64	27	25
65-84	11	11
85+	2	2
Race (%)		
White	65	69
Black & Other	35	31
Sex (%)		
Male	48	49
Female	52	51

In spite of the overall reports of good health given by the citizens of the Palmetto State, chronic conditions are still making an impact on the health of many South Carolinians. Through primary and secondary prevention we hope to reduce the risk factors that contribute to the major chronic diseases and leading causes of death among South Carolinians.

The chart below contains the risk factors that contribute to an increased risk of developing a chronic condition. These risk factors are related to the major causes of morbidity and mortality among South Carolinians. Some common behavioral risk factors that contribute to the leading causes of death are smoking, sedentary lifestyle, obesity, and high cholesterol. The prevalence of these risk factors from the 2005 South Carolina Behavioral Risk Factor Surveillance System (BRFSS) survey are listed in the table below for Chesterfield County.

RISK FACTOR	COUNTY (%)	STATE (%)
Current smoking	29	22
Sedentary lifestyle	29	26
Overweight	66	65
High Cholesterol	54	37

Some preventive measures such as immunization were included in the 2005 SC BRFSS. For persons age 65 and older in South Carolina:

39.1% have not received the flu shot in the past 12 months

34.4% have never had the pneumonia vaccination

Hospital/ED data in the following tables include ONLY those cases treated in SC hospitals. Cases treated in hospitals outside of SC are NOT included.

HYPERTENSION AND HYPERTENSIVE DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)	25.7	.	.	.	.	31.7
Number of hospitalizations	51	33	18	22	29	5,032
Crude rate of hospitalizations (per 100,000)	117	220	63	105	129	118
Median age of hospitalized patients	57	57	70	60	57	57
Total cost of hospitalization (\$)	951,600	666,600	285,000	349,800	601,800	109,400,500
Average length of hospital stay (days)	4	3	5	4	4	5
Number of ED visits	66	49	16	30	36	7,466
Crude rate of ED visits (per 100,000)	152	327	56	143	160	175
Median age of ED patients	47	52	47	50	47	52
Total cost of ED visits (\$)	77,800	61,100	16,700	36,100	41,700	9,929,000
Number of deaths**	14	9	5	7	7	423
Age-Adjusted Death rate (per 100,000)**	33	74	16	45	26	10

DISEASES OF THE HEART	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	4.3	.	.	.	.	4.1
Number of hospitalizations	555	184	370	284	271	60,901
Crude rate of hospitalizations (per 100,000)	1,278	1,227	1,301	1,357	1,204	1,431
Median age of hospitalized patients	67	67	67	62	72	67
Total cost of hospitalization (\$)	17,546,900	4,823,600	12,723,300	10,158,200	7,388,700	2,286,836,400
Average length of hospital stay (days)	4	4	5	4	5	5
Number of ED visits	163	72	90	85	78	12,989
Crude rate of ED visits (per 100,000)	375	480	316	406	347	305
Median age of ED patients	62	62	62	62	62	62
Total cost of ED visits (\$)	738,100	305,100	433,000	422,900	315,200	42,115,900
Number of deaths**	121	36	85	64	57	9,328
Age-Adjusted Death rate (per 100,000)**	279	294	280	351	219	218

STROKE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	3.5	.	.	.	.	3
Number of hospitalizations	132	47	85	59	73	13,925
Crude rate of hospitalizations (per 100,000)	304	313	299	282	324	327
Median age of hospitalized patients	65	62	67	62	67	72
Total cost of hospitalization (\$)	3,526,800	1,308,800	2,218,000	1,635,400	1,891,400	384,441,600
Average length of hospital stay (days)	6	7	5	6	5	6
Number of ED visits	31	12	19	18	13	2,515
Crude rate of ED visits (per 100,000)	71	80	67	86	58	59
Median age of ED patients	62	60	62	62	62	67
Total cost of ED visits (\$)	167,100	63,300	103,800	104,800	62,300	9,113,000
Number of deaths**	25	7	18	18	7	2,440
Age-Adjusted Death rate (per 100,000)**	58	54	61	102	25	59

CHRONIC OBSTRUCTIVE PULMONARY DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	205	59	145	83	122	15,753
Crude rate of hospitalizations (per 100,000)	472	393	510	397	542	370
Median age of hospitalized patients	60	47	62	65	57	62
Total cost of hospitalization (\$)	3,008,400	746,500	2,261,900	1,145,500	1,862,900	268,425,300
Average length of hospital stay (days)	4	3	4	4	4	5
Number of ED visits	321	176	144	137	184	36,543
Crude rate of ED visits (per 100,000)	739	1,174	506	654	818	859
Median age of ED patients	32	22	42	17	37	37
Total cost of ED visits (\$)	399,800	192,700	207,100	156,100	243,700	40,613,700
Number of deaths**	22	1	21	10	12	1,968
Age-Adjusted Death rate (per 100,000)**	49	9	65	61	45	46

DIABETES	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	12.2	.	.	.	.	10.3
Number of hospitalizations	81	56	25	40	41	9,027
Crude rate of hospitalizations (per 100,000)	186	373	88	191	182	212
Median age of hospitalized patients	57	57	47	57	57	52
Total cost of hospitalization (\$)	1,352,500	941,300	411,200	684,100	668,400	179,747,700
Average length of hospital stay (days)	4	5	4	4	5	6
Number of ED visits	96	64	32	38	58	9,603
Crude rate of ED visits (per 100,000)	221	427	113	182	258	226
Median age of ED patients	57	57	57	57	62	52
Total cost of ED visits (\$)	149,000	94,600	54,400	59,600	89,400	13,447,300
Number of deaths**	10	5	5	6	4	1,183
Age-Adjusted Death rate (per 100,000)**	22	37	17	27	16	27

ALL CANCERS	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	117	34	83	49	68	16,389
Crude rate of hospitalizations (per 100,000)	269	227	292	234	302	385
Median age of hospitalized patients	67	67	62	67	62	62
Total cost of hospitalization (\$)	4,346,400	1,333,900	3,012,500	1,986,000	2,360,400	664,309,500
Average length of hospital stay (days)	7	7	7	7	7	8
Number of deaths**	100	29	70	61	39	8,617
Age-Adjusted Death rate (per 100,000)**	220	228	219	312	144	196

COLORECTAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	20	9	11	11	9	2,070
Crude rate of hospitalizations (per 100,000)	46	60	39	53	40	49
Median age of hospitalized patients	67	72	67	67	57	67
Total cost of hospitalization (\$)	921,100	437,600	483,500	687,700	233,400	101,377,700
Average length of hospital stay (days)	8	8	8	11	5	10
Number of deaths**	19	7	12	10	9	812
Age-Adjusted Death rate (per 100,000)**	44	60	40	59	33	19

BREAST CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	10	4	6	-	10	1,228
Crude rate of hospitalizations (per 100,000)	44	51	41	-	40	56
Median age of hospitalized patients	62	55	62	-	62	62
Total cost of hospitalization (\$)	294,200	166,000	128,200	-	294,200	26,163,000
Average length of hospital stay (days)	4	6	3	-	4	3
Number of deaths**	5	3	2	-	5	651
Age-Adjusted Death rate (per 100,000)**	20	43	11	-	20	26

CERVICAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	4	1	3	-	4	192
Crude rate of hospitalizations (per 100,000)	18	13	20	-	18	9
Median age of hospitalized patients	60	42	77	-	60	47
Total cost of hospitalization (\$)	130,900	89,100	41,800	-	130,900	4,668,500
Average length of hospital stay (days)	5	15	2	-	5	4
Number of deaths**	-	-	-	-	-	63
Age-Adjusted Death rate (per 100,000)**	-	-	-	-	-	3

LUNG CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	14	4	10	6	8	2,181
Crude rate of hospitalizations (per 100,000)	32	27	35	29	36	51
Median age of hospitalized patients	62	60	62	62	62	67
Total cost of hospitalization (\$)	525,500	187,600	337,900	337,900	187,600	92,775,300
Average length of hospital stay (days)	8	9	8	11	5	9
Number of deaths**	33	6	26	23	10	2,703
Age-Adjusted Death rate (per 100,000)**	70	46	76	111	37	61

PROSTATE CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	5	-	5	5	-	1,209
Crude rate of hospitalizations (per 100,000)	24	-	36	24	-	58
Median age of hospitalized patients	72	-	72	72	-	62
Total cost of hospitalization (\$)	95,000	-	95,000	95,000	-	30,356,600
Average length of hospital stay (days)	3	-	3	3	-	4
Number of deaths**	4	1	3	4	-	460
Age-Adjusted Death rate (per 100,000)**	24	21	26	24	-	30

*Prevalence estimates at regional level

**Mortality data were provided by Division of Biostatistics, Office of Public Health Statistics and Information Systems, DHEC using ICD-10 codes.

All hospitalizations of Blacks include Blacks and Others.

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